

PROTECTING SYSTEM FOR REGENERATIVE ELECTRIC POWER ABSORBING DEVICE

Patent number: JP63103745
Publication date: 1988-05-09
Inventor: YOSHIKAWA HARUKI
Applicant: FUJI ELECTRIC CO LTD
Classification:
- international: B60M3/06; H02H3/00; H02H7/12
- european:
Application number: JP19860251207 19861022
Priority number(s): JP19860251207 19861022

Abstract of JP63103745

PURPOSE: To detect the trouble of an electric current interrupting means and prevent the spread of the trouble by comparing the pulse width of a control signal for controlling the electric current interrupting means and the pulse width of the output electric current of the electric current interrupting means and checking if the difference between the both is within an allowable range or not. **CONSTITUTION:** When a surplus portion of the regenerative electric power is formed in the regenerative operation of an electric train, and the between-both-edge voltage of an input condenser 31 increases over a set value in a voltage setting device 36, a control signal for reducing the deviation to zero is outputted from a voltage adjustor 34. Therefore, choppers 33A and 33B are operated through a phase shifter 35, and the regenerative electric current is consumed in the load resistances 32A and 32B. In this case, trouble detecting circuits 7 and 8 are connected with the choppers 33A and 33B through electric current detectors 10 and 11. In each trouble detecting circuit 7, 8, the time difference between the electric current signal supplied from each electric current detector 10, 11 and the chopper control signal supplied from the phase shifter 35 is compared, and the existence of trouble is judged, and if a trouble is detected, a high speed breaker 38 is cut off.

Data supplied from the *esp@cenet* database - Worldwide

BEST AVAILABLE COPY



Order Patent

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number:

63103745 A

(43) Date of publication of application: 09.05.1988

(51) Int. Cl.

B60M 3/06

H02H 3/00, H02H 7/12

(21) Application number:

61251207

(22) Date of filing:

22.10.1986

(54) PROTECTING SYSTEM FOR REGENERATIVE
ELECTRIC POWER ABSORBING DEVICE

(57) Abstract:

PURPOSE: To detect the trouble of an electric current interrupting means and prevent the spread of the trouble by comparing the pulse width of a control signal for controlling the electric current interrupting means and the pulse width of the output electric current of the electric current interrupting means and checking if the difference between the both is within an allowable range or not.

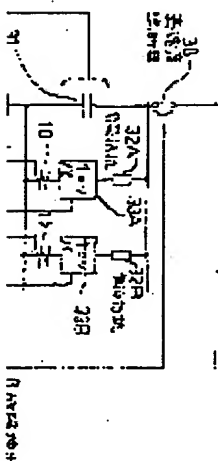
CONSTITUTION: When a surplus portion of the regenerative electric power is formed in the regenerative operation of an electric train, and the between-both-edge voltage of an input condenser 31 increases over

(71) Applicant: FUJI ELECTRIC CO LTD

(72) Inventor: YOSHIKAWA HARUKI

11. In each trouble detecting circuit 7, 8, the time difference between the electric current signal supplied from each electric current detector 10, 11 and the chopper control signal supplied from the phase shifter 35 is compared, and the existence of trouble is judged, and if a trouble is detected, a high speed breaker 38 is cut off.

COPYRIGHT: (C)1988,JPO&Japio





OrderPatent